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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2020-12-08-23 **Date: 08-08-20**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Drain and Concrete Works at Karekallu and Bagalagunte Old Village Surrounding in Ward No.14 Bagalagunte
Agency	:	Technical Manger(West) Karnataka Rural Infrastructure Development Limited, No.280,59th Cross 17th C Maain Road 3rd Y Block, Rajajinagara, Bangaluru-560010
Customer's Reference	:	EE/DD/WO/365/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-08-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	06-08-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.85	–
2	Finess by Air permeablity method (m^2/kg,Min)	348.6	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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Page 1/1
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-12-08-23** **Date: 08-08-20**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Drain and Concrete Works at Karekallu and Bagalagunte Old Village Surrounding in Ward No.14 Bagalagunte
Agency	:	Technical Manger(West) Karnataka Rural Infrastructure Development Limited, No.280,59th Cross 17th C Maain Road 3rd Y Block, Rajajinagara, Bangaluru-560010
Customer Reference	:	EE/DD/WO/365/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-08-20
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	05-08-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2635	2880	57.6	42.4	25-55
4	4.75 mm	1780	4660	93.2	6.8	0-10
5	Pan	340	5000	100	0	–

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TEST RESULTS OF STEEL

Date: 06-08-20

Lab ID	:	**CP-2020-12-08-23**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Drain and Concrete Works at Karekallu and Bagalagunte Old Village Surrounding in Ward No.14 Bagalagunte
Agency	:	Technical Manger(West) Karnataka Rural Infrastructure Development Limited, No.280,59th Cross 17th C Maain Road 3rd Y Block, Rajajinagara, Bangaluru-560010
Customer's Reference	:	EE/DD/WO/365/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-08-20
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	05-08-20

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-12-08-23 **Date: 24/08/2020**

Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Address : Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Drain and Concrete Works at Karekallu and Bagalagunte Old Village Surrounding in Ward No.14 Bagalagunte

Agency : Technical Manger(West) Karnataka Rural Infrastructure Development Limited, No.280,59th Cross 17th C Maain Road 3rd Y Block, Rajajinagara, Bangaluru-560010

Customer's Reference : EE/DD/WO/365/18-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-08-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	17/08/2020	24/08/2020	151.35 X 149.45 X 151.59	22620	**8.842**	428.4	18.9	18.5
2	Drain Bottom Slab Concrete	M20	17/08/2020	24/08/2020	151.64 X 149.90 X 149.68	22730	**8.130**	424.3	18.7	
3	Drain Bottom Slab Concrete	M20	17/08/2020	24/08/2020	150.13 X 150.84 X 151.82	22645	**8.154**	408.4	18.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-12-08-23 **Date: 05/09/2020**

Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Address : Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Drain and Concrete Works at Karekallu and Bagalagunte Old Village Surrounding in Ward No.14 Bagalagunte

Agency : Technical Manger(West) Karnataka Rural Infrastructure Development Limited, No.280,59th Cross 17th C Maain Road 3rd Y Block, Rajajinagara, Bangaluru-560010

Customer's Reference : EE/DD/WO/365/18-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-08-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	29/08/2020	05/09/2020	149.72 X 150.20 X 151.85	22487	8.522	413.8	18.4	18.7
2	Drain Side Wall Concrete	M20	29/08/2020	05/09/2020	150.58 X 150.12 X 149.99	22605	8.472	425.2	18.8	
3	Drain Side Wall Concrete	M20	29/08/2020	05/09/2020	150.54 X 150.10 X 149.30	22596	8.800	428.9	19.0	

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QC ABSTRACT

NAME OF WORK: Construction of Drain and Concrete Works at Karekallu and Bagalagunte Old Village Surrounding in Ward No.14 Bagalagunte

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	RCC (M20)	Compressive Strength(7days and 28days)	6 set /100-150 cum	115.77	12	12
8	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	6 set /100-150 cum	143.37	12	12
9	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID : **CP-RW-2020-12-08-23**

Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore. **Date: 16-09-20**

Address : Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Drain and Concrete Works at Karekallu and Bagalagunte Old Village Surrounding in Ward No.14 Bagalagunte

Agency : Technical Manger(West) Karnataka Rural Infrastructure Development Limited, No.280,59th Cross 17th C Maain Road 3rd Y Block, Rajajinagara, Bangaluru-560010

Customer Reference : EE/DD/WO/365/18-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-09-20

Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)

Date of test : 14-09-20

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.3%	

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